

I. AMENDMENTS TO THE CLAIMS

Please amend the claims as set forth in the following listing. This listing of claims will replace all prior versions, and listings, of claims for the present application.

1. (Currently Amended) A method of providing multiple image streams for transmission across one or more video transmission interfaces, comprising:

receiving at least one digital image data input stream, said digital image data input stream containing digital image information;

creating at least two digital image data streams from said at least one digital data input stream, each of said at least two digital image data streams comprising at least a portion of said digital image information;

converting said at least two digital image data streams into at least two respective output image streams; and

providing said at least two respective output image streams for transmission without image compression from a video camera across said one or more video transmission interfaces to a digital video recorder ("DVR").

2. (Currently Amended) The method of claim 1, further comprising providing said at least two respective output image streams for transmission together without image compression from said video camera across a common video transmission interface to said DVR; wherein said at least one input digital image data stream has a first data content; wherein said at least two respective output image streams each has a data content less than said first data content; wherein said common video transmission interface has insufficient transmission capacity to transmit said at least one input digital image data stream without image compression; and wherein said common video transmission interface has sufficient transmission capacity to transmit each of said at least two respective output image streams without image compression.

3. (Currently Amended) The method of claim 2, wherein said common interface comprises an analog interface; wherein said at least two respective output image streams comprise at least two respective analog image output streams; and wherein said method further comprises:

converting said at least two digital image data streams into said at least two respective analog image output streams; and

providing said at least two respective analog image output streams for transmission without image compression across said common interface.

4. (Original) The method of claim 3, wherein one of said at least two respective analog image output streams comprises a first image having a first resolution and a first frame rate; wherein another of said at least two respective analog image output streams comprises a second image having a second resolution and a second frame rate; and wherein at least one of:

said first and second resolutions are different, or

said first and second frame rates are different, or

said first image comprises a different portion of said digital image data input stream than said second image, or

a combination thereof.

5. (Original) The method of claim 4, wherein said at least one digital image data input stream comprises a digital video signal received from a digital video source; and wherein said method further comprises providing each of said at least two respective analog image output streams as part of an analog video signal for transmission across said analog interface.

6. (Original) The method of claim 5, further comprising receiving said at least two respective analog image output streams as part of said analog video signal from across said analog interface; converting each of said at least two received respective analog image output streams into at least one digital image data stream comprising said first image and into at least one digital image data stream comprising said second image; and at least one of displaying or storing said respective first and second images, or a combination thereof.

7. (Original) The method of claim 6, wherein said first and second frame rates are different and wherein said method further comprises displaying said first image at said first frame rate while simultaneously displaying said second image at said second frame rate.

8. (Original) The method of claim 6, wherein said first and second resolutions are different and wherein said method further comprises displaying said first image at said first resolution while simultaneously displaying said second image at said second resolution.

9. (Original) The method of claim 6, wherein said creating comprises using scaling to create said first image as a zoomed image prior to said step of converting said at least two digital image data streams into said at least two respective analog image output streams; wherein said second image is not a zoomed image; and wherein said step of displaying comprises displaying said zoomed first image while simultaneously displaying said second unzoomed image.

10. (Original) The method of claim 3, wherein said digital image information comprises an original image; wherein said step of creating comprises segmenting at least a part of said original image into at least a first image tile segment comprising a first portion of said original image in a first digital image data stream, and a second image tile segment comprising a second portion of said original image in a second digital image data stream, said first and second portions of said

original image being different portions of said original image having a position relative to each other within said original image; wherein said step of converting comprises converting said first and second digital image data streams into respective first and second analog image output streams; and wherein said method further comprises:

receiving said at first and second analog image output streams as part of said analog video signal from across said analog interface,

converting each of said received first and second analog image output streams into respective third and fourth digital image data streams comprising said respective first and second image tile segments, and

reassembling said first and second tile segments from said third and fourth digital data streams to form said at least a part of said original digital image.

11. (Original) The method of claim 1, wherein said one or more interfaces comprises a digital transmission interface.

12. (Currently Amended) The method of claim 1, wherein said method comprises providing said at least two respective output image streams for transmission without image compression across two respective separate video transmission interfaces.

13. (Withdrawn) A method of processing images, comprising:

segmenting at least a part of an original digital image into multiple tile segments; and

providing said multiple tile segments together across said interface.

14. (Withdrawn) The method of claim 101, further comprising displaying said reassembled part of said original image.

15. (Withdrawn) The method of claim 101, further comprising at least one of storing said received multiple tile segments; or storing said reassembled part of said original digital image, or a combination thereof.

16. (Withdrawn) The method of claim 101, wherein said interface comprises an analog interface.

17. (Withdrawn) The method of claim 101, wherein said interface comprises an analog interface having a transmission frame rate and image resolution limit; wherein the resolution of each of said multiple tile segments does not exceed the image resolution limit of said analog interface; and wherein a combined frame rate of said multiple tile segments when transmitted together does not exceed the transmission frame rate of said analog interface.

18. (Withdrawn) The method of claim 16, wherein said original digital image comprises an original high resolution image; wherein said interface has insufficient bandwidth capacity to transmit said original high resolution image; and wherein said multiple tile segments are provided together across said analog interface within the bandwidth capacity of said analog interface.

19. (Withdrawn) The method of claim 18, wherein said at least a part of said original digital image comprises substantially all of said original high resolution image.

20. (Withdrawn) The method of claim 18, wherein said multiple tile segments comprise four tile segments, each of said four tile segments being a respective different quadrant of said original digital image.

21. (Withdrawn) The method of claim 101, wherein said step of segmenting further comprises providing at least one of alignment identification information or tile segment identification information for each of said tile segments; and wherein said step of reassembling comprises using at least one of said alignment identification information or said tile segment identifier information to reassemble said tile segments to form at least a part of said original digital image.

22. (Withdrawn) The method of claim 21, wherein said at least a part of said original digital image comprises substantially all of said original high resolution image; wherein said method further comprises displaying said reassembled original digital image; and wherein said method further comprises:

extracting at least one window area from said original high resolution digital image;

providing said window area together with said multiple tile segments across said interface;

receiving said window area and said multiple tile segments together from across said interface; and

displaying said window area simultaneously with said reassembled original digital image, said window area being displayed at a second frame rate that is lower than said first frame rate;

wherein said window area and said multiple tile segments are provided together across said analog interface within the bandwidth capacity of said analog interface; and

wherein said window area and said multiple tile segments are provided together across said analog interface at respective image frame rates to allow display of said reassembled original digital image at a first frame rate, and to allow display of said window area at a second frame rate, said second frame rate being greater than said first frame rate.

23. (Withdrawn) The method of claim 22, further comprising varying a portion of said original high resolution digital image that is extracted for said window area based on a command received in real time.

24. (Withdrawn) The method of claim 101, wherein said interface comprises a digital transmission interface.

25. (Currently Amended) A method of processing digital image data, comprising:

providing said digital image data;

processing said digital image data in a first processing operation to create first processed image data;

processing said digital image data in a second processing operation to create second processed image data; and

providing said first and second processed image data for communication together without image compression from a video camera across one or more video transmission interfaces to a digital video recorder (DVR);

wherein at least one of:

said first processed image data has an image resolution that is different from an image resolution of said second processed image data, or

said first processed image data is provided for communication across said interface at an image frame rate that is different from an image frame rate at which said second processed image data is provided for communication from said video camera across said video transmission interface to said DVR, or

said first processed image data comprises a different portion of said digital image data than said second processed image data, or

a combination thereof.

26. (Original) The method of claim 25, further comprising:

receiving said first and second processed image data together from across said one or more interfaces; and

displaying or storing said first and second processed image data.

27. (Currently Amended) The method of claim 26, wherein said method comprises providing said first and second processed image data for communication together without image compression across a common interface; wherein said common interface comprises an analog interface; wherein said method further comprises converting said first and second processed image data to respective first and second analog image information for communication together across said analog interface; and wherein said method further comprises converting said first and second analog image information back into said respective first and second processed image data after receiving said first and second analog image information from across said analog interface.

28. (Original) The method of claim 27, wherein said common interface comprises a bandwidth-limited analog interface.

29. (Original) The method of claim 27, wherein each of said first and second processing operations comprises at least one of an image scaling operation, an image windowing operation, an image deconstruction operation, or a combination thereof.

30. (Original) The method of claim 27, wherein each of said first processed image data and said second processed image data comprises a windowed image, a scaled image, or a image tiled segment.

31. (Currently Amended) The method of claim 25, further comprising:

providing said first and second processed image data for communication together without image compression across a common interface;

processing said digital image data in a third processing operation to create third processed image data; and

wherein at least one of:

said third processed image data has an image resolution that is different from an image resolution of said first and second processed image data, or

said third processed image data is provided for communication across said common interface at an image frame rate that is different from image

frame rates at which said first and second processed image data is provided for communication across said common interface, or

said third processed image data comprises a different portion of said digital image data than said first and second processed image data, or

a combination thereof.

32. (Original) The method of claim 25, wherein said one or more interfaces comprises a digital transmission interface.

33. (Currently Amended) The method of claim 25, wherein said method comprises providing said at least two respective output image streams for transmission without image compression across two respective separate interfaces.

34. (Withdrawn) A method of providing multiple images for transmission across an analog interface, comprising:

providing at least two digital video frames, each of said digital video frames containing a respective digital image;

converting said at least two digital video frames into at least two respective separate analog video frames; and

providing said analog video frames for transmission together across said analog interface.

35. (Withdrawn) The method of claim 34, wherein one of said digital video frames comprises a digital video image having a first resolution and being provided at a first frame rate for

transmission across said analog interface; wherein another of said digital video frames comprises a digital video image having a second resolution and being provided at a second frame rate for transmission across said analog interface; and wherein said first and second resolutions are different, or said first and second frame rates are different, or a combination thereof.

36. (Withdrawn) The method of claim 35, further comprising creating said at least two digital video frames from a digital image received as part of a digital video signal from a digital video source; and providing each of said separate analog video frames as part of an analog video signal for transmission across said analog interface.

37. (Withdrawn) The method of claim 36, wherein said analog interface comprises a standard NTSC, PAL or SECAM interface.

38. (Withdrawn) The method of claim 37, further comprising receiving said analog video signal from across said analog interface; converting each of said at least two separate analog video frames into said at least two separate digital video frames; and at least one of displaying or storing said respective digital images of said at least two separate digital video frames, or a combination thereof.

39. (Withdrawn) The method of claim 38, wherein said first and second frame rates are different and wherein said method further comprises displaying said one of said digital video images at said first frame rate while simultaneously displaying said another of said digital video images at said second frame rate.

40. (Withdrawn) The method of claim 38, wherein said first and second resolutions are different and wherein said method further comprises said one of said digital video images at said first resolution while simultaneously displaying said another of said digital video images at said second resolution.

41. (Withdrawn) The method of claim 38, wherein said method further comprises using scaling to create one of said digital video images as a zoomed digital video image prior to said step of converting said digital video frames into said analog video frames; and displaying said one of said digital video images as a zoomed digital image while simultaneously displaying said another of said digital video images as an unzoomed image.

42. (Withdrawn) A method of processing images, comprising:

segmenting at least one original digital video image into at least one digital image tile segment, said digital image tile segment comprising a portion of said at least one original digital video image;

formatting said at least one digital image tile segment into a digital video frame that contains said digital image tile segment; and

converting said digital video frame into an analog video frame.

43. (Withdrawn) The method of claim 42, further comprising receiving said digital video signal from a digital video source, said digital video signal containing said at least one original digital video image; wherein said segmenting comprises segmenting said at least one original digital video image of said digital video signal into two or more digital image tile segments, each of said digital image tile segments containing a portion of said at least one original digital video image; wherein said formatting comprises formatting each of said two or more digital image tile segments into a separate digital video frame that contains said respective digital image tile segment; wherein said converting comprises converting each of said separate digital video frames into separate analog video frames; and wherein said method further comprises inserting at least one of alignment identification information or tile segment identification information into

each of said separate digital video frames of said digital video signal prior to converting each of said separate digital video frames into separate analog video frames.

44. (Withdrawn) The method of claim 43, further comprising providing each of said separate analog video frames to an analog interface as part of an analog video signal.

45. (Withdrawn) The method of claim 44, wherein said analog interface comprises a standard NTSC, PAL or SECAM interface,

46. (Withdrawn) The method of claim 44, further comprising receiving said analog video signal from said analog interface; converting each of said separate analog video frames into a separate digital video frame containing a digital image segment of said original digital video image; and assembling said separate digital video frames using at least one of said alignment identification information or said tile segment identifier information so that said digital tile image segments together reconstruct said original digital video image or together reconstruct a portion of said original digital video image.

47. (Withdrawn) The method of claim 46, wherein said formatting comprises formatting each of said two or more digital image tile segments into a separate digital video frame that contains said respective digital image tile segment with at least one overlap and identification area provided at an edge of said video frame adjacent a border of said digital image tile segment, said overlap area of each of two of said digital image tile segments containing the same portion of said original video image for overlapping purposes; wherein said inserting further comprises inserting said at least one of alignment identification information or tile segment identification information into a portion of said overlap and identification area; and wherein said assembling further comprises overlapping said separate digital video frames at respective overlap areas of said digital frames.

48. (Withdrawn) The method of claim 46, further comprising at least one of displaying or storing said reconstructed original digital video image or said reconstructed portion of said original digital video image.

49. (Withdrawn) The method of claim 46, wherein said reconstructed original digital video image has the same resolution as said at least one original digital video image.

50. (Withdrawn) The method of claim 42, wherein said method further comprises receiving said digital video signal from a digital video source, said digital video signal containing said at least one original digital video image; and wherein said method further comprises providing said analog video frame to an analog interface as part of an analog video signal.

51. (Withdrawn) The method of claim 50, wherein said analog interface comprises a standard NTSC, PAL or SECAM interface.

52. (Withdrawn) The method of claim 50, further comprising receiving said analog video signal from said analog interface; converting said analog video frame into a separate digital video frame containing said digital image tile segment of said original digital video image; and at least one of displaying or storing said portion of said at least one original digital video image contained in said digital image tile segment, or a combination thereof.

53. (Withdrawn) The method of claim 52, wherein said at least one original digital video image has a first image resolution and a first image frame rate; wherein said segmenting comprises segmenting said at least one digital video image into two or more digital image tile segments, at least one of said two or more digital image tile segments having an image resolution that is different than said first image resolution; and wherein said method further comprises simultaneously displaying video images from said two or more digital image tile segments after said step of converting said analog video frame into a separate digital video frame.

54. (Withdrawn) The method of claim 53, wherein said at least one original digital video image has a first image resolution and a first image frame rate; and wherein said segmenting comprises segmenting said at least one digital video image into two or more digital image tile segments, at least one of said two or more digital image tile segments having an image resolution that is equal to said first image resolution and being provided to said analog interface at a frame rate that is less than said first image frame rate.

55. (Original) The method of claim 53, wherein said at least one original digital video image has a first image resolution and a first image frame rate; wherein said segmenting comprises segmenting said at least one digital video image into two or more digital image tile segments, at least one of said two or more digital image tile segments having an image resolution that is equal to said first image resolution and being provided to said analog interface at a frame rate that is less than said first image frame rate; and wherein said method further comprises scaling said at least one of said two or more digital image tile segments to create a zoomed portion of said original digital video image prior to said step of converting said digital video frame into an analog video frame.

56. (Original) The method of claim 46, wherein said at least one original digital video image has a first image resolution and a first image frame rate; wherein said reconstructed image has a second image resolution that is the same as said first image resolution and has a second frame rate that is less than said first image frame rate; wherein said segmenting further comprises segmenting said at least one original digital video image of said digital video signal into at least one selected digital image tile segment containing a selected portion of said at least one original digital video image and having a third resolution that is the same as said first image resolution and having a frame rate that is less than said first image frame rate but that is greater than said second image frame rate; and wherein said method further comprises simultaneously displaying said reconstructed video image and said selected portion of said original video image from said selected digital image tile segment after said step of converting each of said separate analog video frames into a separate digital video frame.

57. (Original) The method of claim 56, further comprising varying the identity of said selected portion of said at least one original digital video image in real time in response to a command or control signal.

58. (Original) The method of claim 46, wherein said at least one original digital video image has a first image resolution and a first image frame rate; wherein said reconstructed image has a second image resolution that is the same as said first image resolution and has a second frame rate that is less than said first image frame rate; wherein said method further comprises segmenting said at least one original digital video image of said digital video signal into at least one selected digital image tile segment containing a selected portion of said at least one original digital video image and having a third resolution that is the same as said first image resolution and having a frame rate that is less than said first image frame rate but that is greater than said second image frame rate; wherein said method further comprises scaling said at least one selected digital image tile segment to create a zoomed selected portion of said original digital video image prior to said step of converting said digital video frame into an analog video frame; and wherein said method further comprises simultaneously displaying said reconstructed video image and said selected zoomed portion of said original video image from said selected digital image tile segment after said step of converting each of said separate analog video frames into a separate digital video frame.

59. (Original) The method of claim 57, further comprising varying the identity of said selected portion of said at least one original digital video image in real time in response to a command or control signal.

60. (Currently Amended) Multiple stream image creation circuitry configured to receive at least one digital image data input stream containing digital information, said multiple stream image creation circuitry comprising multi-stream image processing circuitry configured to:

create at least two digital image data streams from said at least one digital data input stream, each of said at least two digital image data streams comprising at least a portion of said digital image information;

convert said at least two digital image data streams into at least two respective output image streams; and

provide said at least two respective output image streams for transmission together without image compression from a video camera across one or more video image transmission interfaces to a digital video recorder ("DVR").

61. (Currently Amended) The multiple stream image creation circuitry of claim 60, wherein said multi-stream image processing circuitry is further configured to provide said at least two respective output image streams for transmission together without image compression from said video camera across a common video image transmission interface to said DVR; wherein said at least one input digital image data stream has a first data content; wherein said at least two respective output image streams each has a data content less than said first data content; wherein said common video transmission interface has insufficient transmission capacity to transmit said at least one input digital image data stream; and wherein said common video transmission interface has sufficient transmission capacity to transmit each of said at least two respective output image streams.

62. (Currently Amended) The multiple stream image creation circuitry of claim 61, wherein said common video transmission interface comprises an analog interface; wherein said at least two respective output image streams comprise at least two respective analog image output streams; and wherein said multiple stream image creation circuitry further comprises conversion circuitry configured to:

convert said at least two digital image data streams into said at least two respective analog image output streams; and

provide said at least two respective analog image output streams for transmission without image compression from said video camera across said common video transmission interface to said DVR.

63. (Currently Amended) The multiple stream image creation circuitry of claim 62, wherein one of said at least two digital image data streams comprises a first image having a first resolution and being provided at a first frame rate for transmission without image compression across said common video transmission interface; wherein another of said at least two digital image data streams comprises a second image having a second resolution and being provided at a second frame rate for transmission without image compression across said common video transmission interface; and wherein at least one of:

said first and second resolutions are different, or

said first and second frame rates are different, or

said first image comprises a different portion of said digital image data input stream than said second image, or

a combination thereof.

64. (Original) The multiple stream image creation circuitry of claim 63, wherein said at least one digital image data input stream comprises a digital video signal received from a digital video source; and wherein said multiple stream image creation circuitry is configured to provide each of said at least two respective analog image output streams as part of an analog video signal for transmission across said analog interface.

65. (Original) The multiple stream image creation circuitry of claim 60, wherein said multi-stream image processing circuitry comprises at least one window circuitry component, at least

one image scaler circuitry component, and at least one image mux circuitry component; and wherein said at least one window circuitry component, at least one image scaler circuitry component, and at least one image mux circuitry component are operably coupled to create said at least two digital image data streams from said at least one digital data input stream, and to convert said at least two digital image data streams into said at least two respective output image streams.

66. (Original) The multiple stream image creation circuitry of claim 60, wherein said multi-stream image processing circuitry further comprises at least one image deconstruction circuit component, at least one alignment data circuitry component, and at least one image mux circuitry component; and wherein said at least one image deconstruction circuit component, at least one alignment data circuitry component, and at least one image mux circuitry component are operably coupled to create said at least two digital image data streams from said at least one digital data input stream, and to convert said at least two digital image data streams into said at least two respective output image streams.

67. (Original) The multiple stream image creation circuitry of claim 60, wherein said multi-stream image processing circuitry further comprises at least one window circuitry component, at least one image scaler circuitry component, at least one image deconstruction circuit component, at least one alignment data circuitry component, and at least one image mux circuitry component; and wherein said at least one window circuitry component, at least one image scaler circuitry component, at least one image deconstruction circuit component, at least one alignment data circuitry component, and at least one image mux circuitry component are operably coupled to create said at least two digital image data streams from said at least one digital data input stream, and to convert said at least two digital image data streams into said at least two respective output image streams.

68. (Currently Amended) An image processing system comprising the multiple image creation circuitry of claim 67, and further comprising ~~multiple stream image receiving circuitry~~ said DVR coupled to said multiple image creation circuitry by a common image transmission interface, said ~~multiple stream image receiving circuitry~~ said DVR configured to:

receive said at least two respective output image streams from across said common transmission interface,

convert each of said at least two received respective analog image output streams into at least one digital image data stream comprising said first image and into at least one digital image data stream comprising said second image; and

at least one of store said respective first and second images, provide said first and second images for simultaneous display, or a combination thereof.

69. (Currently Amended) An image processing system comprising the multiple image creation circuitry of claim 60, and further comprising ~~multiple stream image receiving circuitry~~ said DVR coupled to said multiple image creation circuitry by said image transmission interface, said ~~multiple stream image receiving circuitry~~ DVR configured to receive said at least two respective output image streams from across a common video transmission interface.

70. (Currently Amended) An image processing system comprising the multiple image creation circuitry of claim 64, and further comprising ~~multiple stream image receiving circuitry~~ said DVR coupled to said multiple image creation circuitry by said analog interface, said ~~multiple stream image receiving circuitry~~ DVR configured to:

receive said at least two respective analog image output streams as part of said analog video signal from across said analog interface;

convert each of said at least two received respective analog image output streams into at least one digital image data stream comprising said first image and into at least one digital image data stream comprising said second image; and

at least one of store said respective first and second images, provide said first and second images for simultaneous display, or a combination thereof.

71. (Currently Amended) ~~The image processing system of claim 70, wherein said multiple stream image receiving circuitry comprises~~ An image processing system comprising the multiple image creation circuitry of claim 64, and further comprising said DVR coupled to said multiple image creation circuitry by said analog interface, said DVR comprising a PC-based digital video recorder ("DVR") configured to receive said at least two respective analog image output streams at said DVR as part of said analog video signal from across said analog interface; convert each of said at least two received respective analog image output streams into at least one digital image data stream comprising said first image and into at least one digital image data stream comprising said second image; compress said at least one digital image data stream to form compressed image information; and further transmit said compressed image information from said DVR to other viewing stations via a local area network (LAN) or a wide area network (WAN).

72. (Original) The image processing system of claim 70, wherein said first and second frame rates are different and wherein said multiple stream image receiving circuitry is further configured to provide said first image for display at said first frame rate while simultaneously providing said second image for display at said second frame rate.

73. (Currently Amended) The image processing system of claim 70, wherein said first and second resolutions are different and wherein said ~~multiple stream image receiving circuitry~~ DVR

is further configured to provide said first image at said first resolution for simultaneous display with said second image at said second resolution.

74. (Currently Amended) The image processing system of claim 70, wherein said multiple image creation circuitry is further configured to use scaling to create said first image as a zoomed image prior to converting said at least two digital image data streams into said at least two respective analog image output streams; wherein said second image is not a zoomed image; and wherein said ~~multiple-stream-image-receiving-circuitry~~ DVR is further configured to provide said zoomed first image for simultaneous display with said second unzoomed image.

75. (Currently Amended) An image processing system comprising the multiple image creation circuitry of claim 62, and further comprising ~~multiple-stream-image-receiving-circuitry~~ said DVR coupled to said multiple image creation circuitry by said analog interface; wherein said digital image information comprises an original image; wherein said multi-stream image processing circuitry is further configured to segment at least a part of said original image into at least a first image tile segment comprising a first portion of said original image in a first digital image data stream, and a second image tile segment comprising a second portion of said original image in a second digital image data stream, said first and second portions of said original image being different portions of said original image having a position relative to each other within said original image; and wherein said ~~multiple-stream-image-receiving-circuitry~~ DVR is configured to:

receive said at first and second analog image output streams as part of said analog video signal from across said analog interface,

convert each of said received first and second analog image output streams into respective third and fourth digital image data streams comprising said respective first and second image tile segments, and

reassemble said first and second tile segments from said third and fourth digital data streams to form said at least a part of said original digital image.

76. (Original) The multiple stream image creation circuitry of claim 60, wherein said one or more interfaces comprises a digital transmission interface.

77. (Original) The multiple stream image creation circuitry of claim 60, wherein said multi-stream image processing circuitry configured to provide said at least two respective output image streams for transmission across two respective separate interfaces.

78. (Currently Amended) A video camera, including Multiple multiple stream image creation circuitry comprising multi-stream image processing circuitry and ~~conversion circuitry~~, said multi-stream image processing circuitry comprising at least one window circuitry component configured to extract a selected portion of an original higher resolution image frame to form a lower resolution windowed partial image, at least one image scaler circuitry component configured to scale the lower resolution windowed partial image, at least one image deconstruction circuit component configured to segment an original image frame into two or more segmented higher resolution frames or tiled higher resolution images, at least one alignment data circuitry component configured to insert at least one of tile identification information or horizontal alignment information or vertical alignment information into unused lines of said segmented higher resolution frames or tiled higher resolution images, and at least one image mux circuitry component configured to select either or both of said scaled lower resolution frames from said image scaler circuitry component or said higher resolution tile images from said alignment data circuitry component for transmission without image compression across a video transmission interface.

79. (Original) The multiple stream image creation circuitry of claim 78, wherein said transmission interface comprises an analog interface; and wherein said multiple stream image creation circuitry further comprises conversion circuitry coupled between said multi-stream image processing circuitry and said analog interface.

80. (Currently Amended) An image processing system comprising the ~~multiple image creation circuitry~~ video camera of claim 79, and further comprising a digital video recorder (DVR) including multiple stream image receiving circuitry coupled to said multiple image creation circuitry of said video camera by said analog interface.

81. (Original) The image processing system of claim 80, wherein said multiple stream image receiving circuitry comprises a frame grabber and multi-stream image processing circuitry.

82. (Currently Amended) The image processing system of claim 81, wherein said multi-stream image processing circuitry of said multiple stream receiving circuitry of said DVR comprises at least one image reconstruction circuit component configured to reconstruct said segmented higher resolution frames or said tiled higher resolution images back into said original higher resolution image based on said alignment information inserted by said alignment data circuitry component into said unused lines of said segmented higher resolution frames or tiled higher resolution images, at least one compression circuitry component configured to compress image information received by said multiple stream receiving circuitry of said DVR, and at least one storage device component configured to store said compressed image information.

83. (Original) The image processing system of claim 82, wherein said analog interface comprises a NTSC, PAL or SECAM interface.

84. (Currently Amended) The image processing system of claim 82, wherein said ~~multiple stream-receiving circuitry~~ DVR comprises a PC-based DVR configured to transmit said compressed image information from said DVR to other viewing stations via a local area network (LAN) or a wide area network (WAN) ~~digital video recorder ("DVR")~~.

85. (Original) The image processing system of claim 84, wherein said analog interface comprises a NTSC, PAL or SECAM interface.

86. (Currently Amended) An image processing system comprising a video camera including multiple image creation circuitry; and a digital video recorder (DVR) including multiple image receiving circuitry; wherein said video camera is coupled to said DVR multiple image-receiving circuitry by at least one video image transmission interface; wherein said multiple image creation circuitry comprises multi-image processing circuitry that comprises at least one window circuitry component configured to extract a selected portion of an original higher resolution image frame to form a lower resolution windowed partial image, at least one image scaler circuitry component configured to scale the lower resolution windowed partial image, at least one image deconstruction circuit component configured to segment an original image frame into two or more segmented higher resolution frames or tiled higher resolution images, at least one alignment data circuitry component configured to insert at least one of tile identification information or horizontal alignment information or vertical alignment information into unused lines of said segmented higher resolution frames or tiled higher resolution images, and at least one image mux circuitry component configured to select either or both of said scaled lower resolution frames from said image scaler circuitry component or said higher resolution tile images from said alignment data circuitry component for transmission without image compression across said video transmission interface from said video camera to said digital video recorder (DVR).

87. (Cancelled)

88. (Original) The image processing system of claim 87, wherein said image transmission interface comprises an analog interface.

89. (Original) The image processing system of claim 88, wherein said multiple stream image receiving circuitry comprises a frame grabber and multi-stream image processing circuitry.

90. (Currently Amended) The image processing system of claim 89, wherein said multi-stream image processing circuitry of said multiple stream receiving circuitry comprises at least one image reconstruction circuit component configured to reconstruct said segmented higher resolution frames or said tiled higher resolution images back into said original higher resolution image based on said alignment information inserted by said alignment data circuitry component into said unused lines of said segmented higher resolution frames or tiled higher resolution images, at least one compression circuitry component configured to compress image information received by said multiple stream receiving circuitry of said DVR, and at least one storage device component configured to store said compressed image information.

91. (Original) The image processing system of claim 90, wherein said analog interface comprises a NTSC, PAL or SECAM interface.

92. (Currently Amended) The image processing system of claim 90, wherein said ~~multiple stream receiving circuitry~~ DVR comprises a PC-based DVR configured to transmit said compressed image information from said DVR to other viewing stations via a local area network (LAN) or a wide area network (WAN) ~~digital video recorder ("DVR")~~.

93. (Original) The image processing system of claim 92, wherein said analog interface comprises a NTSC, PAL or SECAM interface.

94. (Currently Amended) A system for processing digital image data, comprising image creation circuitry configured to:

process said digital image data in a first processing operation to create first processed image data;

process said digital image data in a second processing operation to create second processed image data; and

provide said first and second processed image data for communication together without image compression from a video camera across a video transmission ~~an~~ interface to a digital video recorder (DVR);

wherein at least one of:

said first processed image data has an image resolution that is different from an image resolution of said second processed image data, or

said first processed image data being provided for communication across said interface at an image frame rate that is different from an image frame rate at which said second processed image data is provided for communication across said video transmission interface, or

said first processed image data comprises a different portion of said digital image data than said second processed image data, or

a combination thereof.

95. (Original) The system of claim 94, further comprising image receiving circuitry configured to:

receive said first and second processed image data together from across said interface; and

at least one of display or store said first and second processed image data.

96. (Currently Amended) The system of claim 95, wherein said video transmission interface comprises an analog interface; wherein said image creation circuitry is further configured to convert said first and second processed image data to respective first and second analog image information for communication together from said video camera across said analog interface to said DVR; and wherein said image receiving circuitry is further configured to convert said first and second analog image information back into said respective first and second processed image data after receiving said first and second analog image information at said DVR from said video camera across said analog interface.

97. (Original) The system of claim 96, wherein said interface comprises a bandwidth-limited analog interface.

98. (Original) The system of claim 96, wherein each of said first and second processing operations comprises at least one of an image scaling operation, an image windowing operation, an image deconstruction operation, or a combination thereof.

99. (Original) The system of claim 96, wherein each of said first processed image data and said second processed image data comprises a windowed image, a scaled image, or a image tiled segment.

100. (Original) The system of claim 94, wherein said image creation circuitry is further configured to process said digital image data in a third processing operation to create third processed image data; and wherein at least one of:

said third processed image data has an image resolution that is different from an image resolution of said first and second processed image data, or

said third processed image data being provided for communication across said interface at an image frame rate that is different from image frame rates at which said first and second processed image data are provided for communication across said interface, or

said third processed image data comprises a different portion of said digital image data than said first and second processed image data, or

a combination thereof.

101. (Withdrawn) The method of claim 13, further comprising:

receiving said multiple tile segments together from across said interface; and

reassembling said received multiple tile segments to form at least a part of said original digital image.

102. (New) The method of claim 5, further comprising receiving said at least two respective analog image output streams at said DVR as part of said analog video signal from across said analog interface; converting each of said at least two received respective analog image output streams into at least one digital image data stream comprising said first image and into at least one digital image data stream comprising said second image; compressing said at least one digital image data stream in said DVR to form compressed image information; and further

transmitting said compressed image information from said DVR to other viewing stations via a local area network (LAN) or a wide area network (WAN); wherein said DVR comprises a PC-based digital video recorder.